

# X-Series

## MV Skid

### 2.5 MW | 5.0 MW

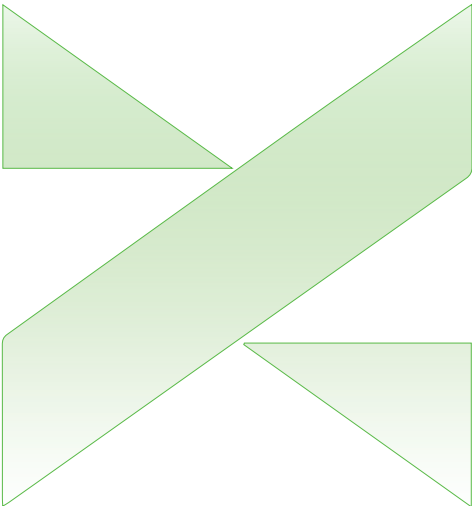
Reliable MV AC system to flexibly integrate into the grid

Improved Safety Characteristics

- Built-in prevention mechanisms: premium-grade electrical components, advanced battery management and system-level safeguards
- AI-based fault monitoring: real-time detection of overcurrent, overvoltage, thermal stress, and grid anomalies
- Dynamic cooling systems: optimized air and liquid cooling setups with auxiliary protection measures
- Robust insulation: heat-resistant enclosures and advanced deflagration mitigation technologies
- Ultra-wide operating temperature range for extreme climate resilience

Optimized Solution

- Flexible modular topology, ideal for various application scenarios from energy storage to hybrid renewable systems
- Optimal energy capacity management enabled through advanced system sizing and scalable configuration
- Space-saving design: compact layout allowing side-by-side and back-to-back installation
- Engineered for durability and reliable performance under demanding environmental and operational conditions
- Grid-forming capabilities for enhanced grid stability and black start operations



ELECTRICAL DC INPUT	2.5 MW	5.0 MW
DC Input Channel No.	12	24
Maximum DC Current	3,372 A	6,744 A
DC Operating Voltage	1,000 V ... 1,500 V	

ELECTRICAL AC OUTPUT	2.5 MW	5.0 MW
Nominal Power	2,500 kW	5,000 kW
Maximum Output Power	3,000 kVA	6,000 kVA
Galvanic Isolation	Yes	
Reactive Power Range	0-2,625 kVAr	0-5,250 kVAr
Rated Voltage	6~35 kV (Customizable)	
Rated Frequency	50 Hz	
THDi	< 3%	
Power Factor	-1~1	

MECHANICAL		
Dimensions (W × D × H)	6,058 × 2,438 × 2,896 mm	
Protection Level	IP55	

AMBIENT		
Application Altitude	≤4,000 m	
Application Temperature	-40°C ~ +60°C	

GENERAL		
EMS Communication	Ethernet Interface	
Compliance	IEC61000, EN50549 IEC62477	

# The X Factor of Energy

